NOAA's Applied Research Centers (ARCs)

Phil Arkin
Office of Global Programs, OAR

Climate Dynamics/Experimental Prediction (CDEP)

➢Mission: to advance NOAA's seasonal-to-decadal climate prediction efforts

≫Goals:

- Contribute to the development and implementation of coupled ocean-land-atmosphere forecast system(s) based on dynamical models
- Foster the development of new prediction and application techniques
- Method: sponsor a critical mass of focused research and development at a few institutions the ARCs

≫Clients:

- Forecasters at CPC and IRI
- Users (applications and assessment communities)

Applied Research Centers

- ➢Government, academic and private
- Committed to a partnership with NOAA's climate service providers
- Working closely with CPC, IRI and users of many sorts
- >Long-term and near-term goals

Applied Research Centers (base funded)

- Experimental Climate Prediction Center (ECPC Scripps)John Roads
- Center for Ocean Land Atmosphere Studies (COLA IGES) Jim Kinter
- Center for Science in the Earth System (CSES U. Washington) Ed Sarachik
- Climate Diagnostics Center (CDC NOAA/OAR) Randy Dole
- Center for Ocean Atmosphere Prediction Studies (COAPS FSU) Jim O'Brien

Applied Research Centers (no base funding)

- ➢ Geophysical Fluid Dynamics Laboratory (GFDL NOAA/OAR) Tony Rosati
- NASA Seasonal-to-Interannual Prediction Project (NSIPP NASA/GSFC) Michele Rienecker
- Environmental Modeling Center (NOAA/NWS/NCEP) -Steve Lord
- Modeling and Prediction Research Group (International Research Institute for Climate Prediction) Steve Zebiak

CDEP Funding Policy

≈Consists of base + flexible

≫Base:

- Not all ARCs get base funding from CDEP
- Intended to support long-term ongoing r&d efforts
- Base funds allocated by ARCs Director with concurrence of program manager

Flexible:

- More constrained and focused than base
- Critical enhancements to base-funded long-term projects
- Near-term efforts aimed at specific needs of clients
- 1-3 year time horizon

Schedule

➢Identify critical issues for long-term efforts
➢Identify near-term needs of forecasters and users
➢Invite proposals for both from ARCs and affiliates
➢ARCs Science Meeting - Scripps, Oct. 2001
➢Brief proposals for flexible funding due mid-Nov.

Funding decisions before Feb. 2002

Future

- Fund augmented efforts (all by July 1)
- ➢Institutionalize inter-ARC collaboration/communication
- Begin to develop a strategic plan for the ARCs